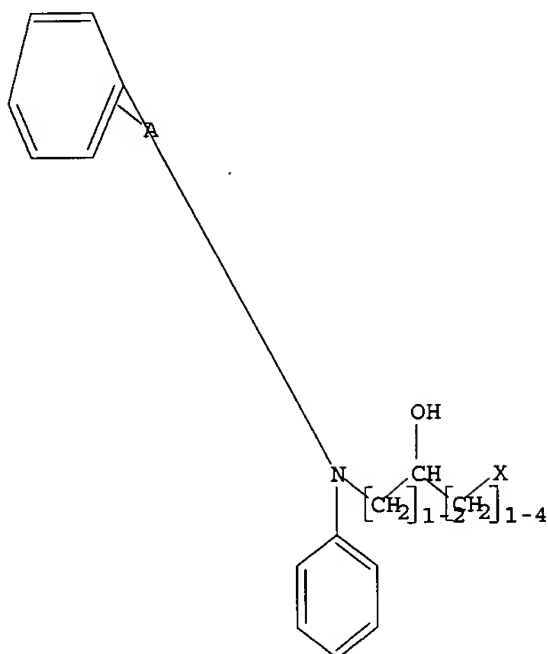


09/288,556

L12

STR



G1 H, Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s l12 sss full

FULL SEARCH INITIATED 13:37:59 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 461 TO ITERATE

100.0% PROCESSED 461 ITERATIONS  
SEARCH TIME: 00.00.01

2 ANSWERS

L13 2 SEA SSS FUL L12

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
151.35	813.27

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-8.46

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 13:38:04 ON 05 SEP 2003

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FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11  
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13  
L14 2 L13

=> d 1-2 l13 ibib abs hitstr  
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	813.69
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

FILE 'CAPLUS' ENTERED AT 13:38:31 ON 05 SEP 2003  
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FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11  
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

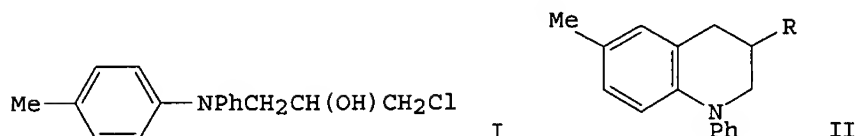
=> s l13  
L15 2 L13

=> d l14 1-2 ibib abs hitstr

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1976:446348 CAPLUS  
DOCUMENT NUMBER: 85:46348  
TITLE: 3-Chloro-2-hydroxypropyl derivatives of aromatic amines and their reaction products. XVII.

09/288,556

AUTHOR(S): 4-Methyldiphenylamine  
Kutkevicius, S.; Samarskis, E.  
CORPORATE SOURCE: Kaunas. Politekh. Inst. im. Sneckusa, Kaunas, USSR  
SOURCE: Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Chemija  
ir Chemine Technologija (1975), 17, 151-4  
CODEN: LAMCAJ; ISSN: 0459-3391  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
GI

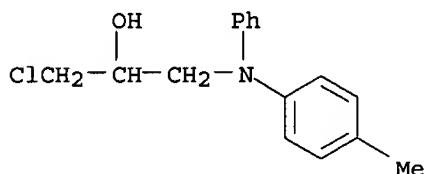


AB Addn. of epichlorohydrin to p-MeC<sub>6</sub>H<sub>4</sub>NHPh in AcOH 6 days at 70.degree. gave 80% I. A similar reaction 5 days at 150-5.degree. gave 75.4% II (R = OH) which was dehydrated by polyphosphoric acid to give 27% II (R = H). Acylation of II (R = OH) gave 50-3% II (R = AcO, BzO, p-NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>).

IT 59836-08-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and cyclization of)

RN 59836-08-7 CAPLUS

CN 2-Propanol, 1-chloro-3-[(4-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1969:37343 CAPLUS

DOCUMENT NUMBER: 70:37343

TITLE: N-(.gamma.-Chloro-.beta.-hydroxylpropyl)arylamines and their reaction products. VI. N-Mono- and N,N-bis(.beta.,.gamma.-epoxypropyl)amines

AUTHOR(S): Kutkevicius, S.; Rutkauskas, S.

CORPORATE SOURCE: Kaunas. Politekh. Inst., Kaunas, USSR

SOURCE: Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Chemija ir Chemine Technologija (1967), 8, 99-104  
CODEN: LAMCAJ; ISSN: 0459-3391

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Powd. NaOH (16 g.) was shaken with 26 g. Ph<sub>2</sub>NCH<sub>2</sub>CH(OH)CH<sub>2</sub>Cl (I) in 50 cc. HCONMe<sub>2</sub> 10-20 min. with cooling, to give 82% N-(.beta.,.gamma.-epoxypropyl)diphenylamine (II), b<sub>1-2</sub> 158-9.degree.. Similarly, 2-(.beta.,.gamma.-epoxypropyl)-2'-aminodiphenylamine (III), and N,N'-diphenyl-N,N'-bis(.beta.,.gamma.-epoxypropyl)-p-phenylenediamine (IV) was obtained. I (0.2 mole) in 0.6-1 mole HCONMe<sub>2</sub> was shaken with 0.8-1 mole powd. Na 10-15 min., the mixt. dild. with 20-30 cc. H<sub>2</sub>O, heated at

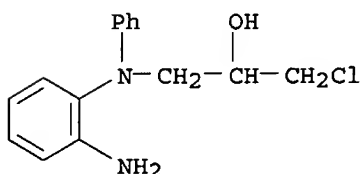
40-60.degree. 2-3 hrs. with stirring to give 73% Ph<sub>2</sub>NCH<sub>2</sub>CH(OH)CH<sub>2</sub>NMe<sub>2</sub>, m. 48-9.degree. (petroleum ether or alc.). Similarly the following ArNHCH<sub>2</sub>CH(OH)CH<sub>2</sub>NMe<sub>2</sub> were obtained (Ar, % yield and m.p. given): Ph, 62, 81-2.degree.; p-MeC<sub>6</sub>H<sub>4</sub>, 81, 71-2.degree.; 1-naphthyl, -, 81-2.degree.; o-PhNHC<sub>6</sub>H<sub>4</sub>, 67, 102-3.degree.. Similarly prepd. was N,N'-diphenyl-N,N'-bis(.gamma.-dimethylamino-.beta.-hydroxypropyl)-p-phenylenediamine, m. 129-31.degree.. Epichlorohydrin (V) 37 g. and 36.8 g. 2-aminodiphenylamine was kept 45 hrs., the mixt. was dissolved in amyl alc. and satd. with HCl to give 27.6 g. o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NPhCH<sub>2</sub>CH(OH)CH<sub>2</sub>Cl.cntdot. HCl (VI), m. 135-6.degree. (amyl alc.). VI (30 g.), 12 g. powd. NaOH, and 0.6 l. Et<sub>2</sub>O was shaken and refluxed 3 hrs. to give 17.8 g. III, m. 79-80.degree. (Et<sub>2</sub>O). p-PhNHC<sub>6</sub>H<sub>4</sub>NHPh (13 g.), 18.5 g. V, and 6 g. AcOH was heated at 60-5.degree. 48 hrs., the mixt. was shaken with 250 cc. H<sub>2</sub>O and extd. with Et<sub>2</sub>O. Powd. NaOH (20 g.) was added to the Et<sub>2</sub>O layer and the mixt. was refluxed 2 hrs. to give 7.2 g. IV, m. 70-1.degree. (Et<sub>2</sub>O). Similarly, 22.1 g. II, b3-4 182-4.5.degree., was obtained from 37 g. V after 55 hrs. V (37 g.), 36.6 g. 4-MeC<sub>6</sub>H<sub>4</sub>NHPh, and 12 g. AcOH was heated at 60-3.degree. 50 hrs., the mixt. treated with H<sub>2</sub>O and extd. with Et<sub>2</sub>O, and the Et<sub>2</sub>O was removed. The residue was dissolved in 180 cc. MeOH, 9.8 g. NaCN was added and the mixt. was heated 1 hr. at 60-4.degree. to give 36% p-MeC<sub>6</sub>H<sub>4</sub>NPhCH<sub>2</sub>(OH)CH<sub>2</sub>R (VII, R = CN) (VIII), m. 70-1.degree. (MeOH). Similarly, 26% p-[NCCH<sub>2</sub>CH(OH)CH<sub>2</sub>NPh]<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, m. 163-4.degree. (Et<sub>2</sub>O), was obtained. VIII (1.3 g.), 7 cc. MeOH, 2 cc. H<sub>2</sub>O, 0.4 g. NaOH, and 5 cc. 10% H<sub>2</sub>O<sub>2</sub> was heated at 47-50.degree. 20 min. to give 42% VII (R = CONH<sub>2</sub>), m. 134-5.degree. (MeOH). VIII (2.6 g.), 8 cc. alc., 1.6 g. NaOH, and 5 cc. H<sub>2</sub>O was heated at 100-5.degree. 4 hrs. to give 53% VII (R = CO<sub>2</sub>H), m. 79-80.degree. (alc.).

IT 21471-79-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 21471-79-4 CAPLUS

CN 2-Propanol, 1-[N-(o-aminophenyl)anilino]-3-chloro-, monohydrochloride  
(8CI) (CA INDEX NAME)



● HCl

=&gt;